Installation and Operating Instructions

Zip HydroTap® 4-in-1 and Zip HydroTap® 3-in-1

Filtered Boiling and Chilled water plus Hot and Cold water for kitchens and tea rooms.

This Installation Instruction covers the following HydroTap models:
'BCH' 4-in-1 series and 'BH' 3-in-1 series.

Affix Model Number Label Here

Installation Checklist

Before Installation:

A. Read the instructions

B. Check the water pressure to determine if you require a pressure reduction valve or a flow restrictor added or removed from the kit.

C. Check the water quality to determine if extra filtration will be required. A potable mains water supply must be used.

D. Check the appliance rating plate and ensure correct power is available for the appliance.

E. Check the under counter cupboard supporting the appliance is adequate for the total weight of the appliance, when full of water.

Before Commissioning:

1. Check the unit has been installed correctly.

2. Check all plumbing fittings have been tightened.

3. Ensure the outlet and vent pipes are positioned to drain correctly.

4. Ensure there is adequate ventilation.

5. Check all tubes from the undersink unit to the tap, have a constant rise and there are no sags or kinks in the hoses.

6. Check all electrical connections are correct and there are no loose wires.

Commission:

7. Flush the supply line before connecting.

8. Turn on the water and check for leaks.

9. Flush the filter.

10. Programme (select electronic models) to suit the customer's requirements.

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NOTE: Read all instructions and precautions before proceeding.
If in doubt, or need further guidance, please call Zip on 0845 6 005 005.
Please leave these instructions with the end user after installation.
This unit must be installed in accordance with water supply byelaws, current IEE regulations and relevant local authority byelaws.

Product Description

Hydrotap BH, 3-in-1 and BCH, 4-in-1 models employ the use of selected Hydrotap B and BC assemblies, which have been factory modified to accept a secondary mixer tap. The mixer tap is connected so that it draws water directly from the cold water mains as well as from the boiling water storage tank. In this way the combination of the two taps will allow the user to select water at 4 different temperature ranges. (see estimates below)

For BCH, 4-in-1 models, the main Hydrotap outlet will deliver Boiling and Chilled water and the secondary mixer tap outlet will deliver Hot and Cold water. Whereas the BH, 3-in-1 models will perform exactly the same, except there is no chilled water option.

The estimated temperature ranges will be:

Boiling water:	68°C - 98°C
Mixed water:	From ambient up to 20°C above ambient
Cold water:	Ambient. (Approx. 15°C - 20°C)
Chilled water:	5°C - 15°C

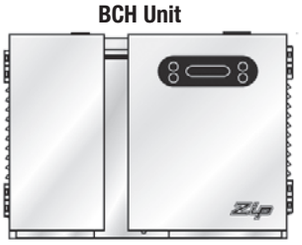
NOTE:

Read all instructions and precautions before proceeding. This unit must be installed in accordance with water supply byelaws, current IEC regulations and relevant local authority byelaws.

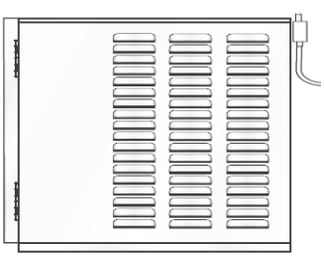
Read These Warnings First

Note:
Always ensure the tubes are shortened so that any excess is removed and their route is the most direct line between the tap assembly and the HydroTap unit.
Do not allow the tubes to sag or droop so water is trapped within the hoses. Always maintain a constant fall
Positioning of the tap assembly must be within the following parameters:
The height between the base of the Hydrotap unit and the base of the Tap assembly cannot be greater than 900mm.

BCH Unit

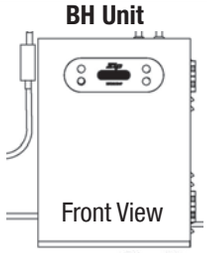


Front View

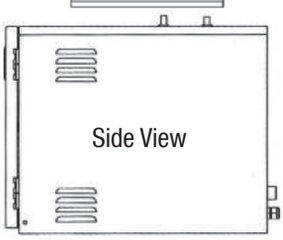


Side View

BH Unit



Front View



Side View

Zip Hydrotap undersink assembly.
The appliance must be placed in a horizontal, upright position, as shown above.

Safety

This appliance is not intended for use by persons (including children) with reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Refrigerant

The Zip HydroTap Chilling unit contains 134a refrigerant under pressure. No part of the unit should be exposed to a naked flame. Maintenance of the refrigeration unit must be carried out by an accredited service provider or qualified refrigeration mechanic.

Qualifications

If the power cable is damaged it must be repaired only by a qualified technician. To avoid hazards, all installation procedures must be carried out by a suitably qualified tradesperson. The power cable and power outlet must be in a safe visible position for connection.

The power supply cable must be adequately secured.

Do not remove the cover of the appliance under any circumstances without first isolating the appliance from the power supply.

As the installer, it is your responsibility to supply (if necessary) and install all valves as required by local regulations and relevant standards.

The plumbing installation must be done in accordance with local Water Authority regulations and these Installation Instructions.

This appliance must be earthed.

Venting

Sometimes steam and / or boiling water may discharge through a vent outlet at the mouth of the tap. If the tap is not installed using the Font pedestal, ensure the tap body is located so the tap outlet safely drains into the sink bowl area.

NOTE: On startup, the controls take the system through a calibration process which causes the unit to over-boil for a period of 90 seconds. Once this mode is completed the system reverts back to normal operation.

Lifting

Take care when lifting the Zip HydroTap undersink unit. Some units may exceed safe lifting guidelines. If you feel this is beyond your personal capabilities, please seek assistance with the lift. The weights of the units are marked on the packaging and are given in the table on page 7. Do not lift the unit by the doors.

Airflow

The ambient temperatures this unit should operate within are 5ºC - 35ºC.
Proper air circulation must be provided. The system will operate satisfactorily only if the recommended air gaps are provided, these are 65mm min rear clearance and 50mm side clearance. An air vent is provided with each unit for high usage applications, this must be installed in the top half of the cupboard door as a matter of course. An accessory exhaust fan kit is available and when supplied should always be fitted to ensure adequate ventilation. Make sure that the ventilation grilles of the undersink unit are not obstructed. Included in the installation pack are adhesive backed silicon buffers. If air vents are not installed in the cupboards housing the HydroTap, the buffers must be placed on the inside edge of the cupboard door to create a slight gap ensuring a minimum airflow. Failure to do this may cause the HydroTap to overheat and operate inefficiently.

Altitude

The Zip HydroTap is equipped with a self-calibrating program which caters for altitude adjustment.

Filter Control

The Zip HydroTap filter control is preset to 6000 litres to provide trouble-free flow and operation in most installations. Local water quality conditions may require an alteration to this capacity. In areas where the water has a high concentration of sediment, the preset litre capacity may be shortened to avoid poor flow, taste or odour situations. In areas where the water quality is above average, lengthening the preset capacity may be desirable, but not essential. If any of these changes is needed, follow the instructions on page 16 or contact your Zip Service Provider.

Frost Protection

If this appliance is located where the ambient air temperature could fall below 5ºC when the heater is not in use, do not turn off the appliance electrically. This safeguard does not offer the same protection to the connecting pipework and fittings.

Environment Considerations

This unit is intended for indoor use only and should never be installed outdoors or exposed to the elements of nature. This unit must not be positioned in an area that may be cleaned by a water jet and must not be cleaned by a water jet.

Warning:

Zip HydroTaps are designed to operate within 1ºC to 2ºC of set point for boiling water and at 5ºC to 15ºC for chilled drinking water. All boiling water units are self calibrating to 98ºC, which is the recommended setting. Adjustments to the recommended setting of 98ºC setting are not advised, however, under certain circumstances adjustments may be made between 68º - 100ºC . The 100ºC setting is not recommended as units may discharge or boil over more frequently.

For details see step G on page 12.

Caution must be observed when changing any settings within the Service Menu as any changes may affect the normal operation of the unit.

Note:

Always ensure the silicone tubes are shortened so that any excess is removed and their route is the most direct line between the tap assembly and the HydroTap unit.

Do not allow the tubes to sag or droop so water is trapped within the hoses. Always maintain a constant fall.

Positioning of the tap assembly must be within the following parameters:

The height between the base of the Hydrotap unit and the base of the Tap assembly cannot be greater than 900mm.

Specifications

BCH	160	125
Model	Cups of Boiling Water per Hour	Glasses of Chilled Water per Hour

These Installation Instructions cover the 3-in-1 and 4-in-1HydroTap range. Use the chart on the left to identify the model you are using:

Commercial Models:

BCH = Boiling / Chilled and Hot / Cold. Standard Tap (4-in-1)

BCHT = Boiling / Chilled and Hot / Cold. Tall Mixer Tap (4-in-1)

BCHS = Boiling / Chilled and Hot / Cold. Square Mixer Tap (4-in-1)

BH F = Boiling and Hot / Cold. Standard Tap (3-in-1)

BHT F = Boiling and Hot / Cold. Tall Mixer Tap (3-in-1)

BHS F = Boiling and Hot / Cold. Square Mixer Tap (3-in-1

Boiling Water Capacity:

160 = 160 cups in one hour** 200 = 200 cups in one hour**

** Capacity will be reduced by the volume of water used when operating the mixer tap.

Chilled Water Capacity: (BCH only)

125 = 125 glasses in one hour 175 = 175 glasses in one hour

Note: The **Cup** measurement = 167mls, the **Glass** measurement = 200mls.

+ signifies models are 'freeflow' ensuring cold water continues to flow when chilled glasses per hour is exceeded during periods of high demand.

Model	Max. Boiling Cups/hr	Max. Chilled Glasses/hr	Width mm	Depth mm	Height mm	Weight empty kg's	Weight full kg's	Power Rating kW @ 230V
BH160F (Standard Tap) BHT160F (Tall Tap) BHS160F (Square Tap)	160	-	333	323	353	9.5	12.0	2.1
BH200F (Standard Tap) BHT200F (Tall Tap) BHS200F (Square Tap)	200	-	364	340	409	10.0	14.0	2.6
BCH160/125+ (Standard Tap) BCHT160/125+ (Tall Tap) BCHS160/125+ (Square Tap)	160	125	440	473	337	28.0	35.0	2.3
BCH200/175+ (Standard Tap) BCHT200/175+ (Tall Tap) BCHS200/175+ (Square Tap)	200	175	500	508	395	29.5	38.0	2.8

Installation Requirements

Before installing ensure that the following have been provided at the installation site:

- Sufficient space in the cupboard to install the undersink unit in accordance with these Installation Instructions. A table of dimensions is given above.

NOTE: Add 65mm to the Depth of the undersink unit to allow for Water and Electrical connections.

- A potable mains water supply connection with isolating valve inside the cupboard within reach of the 750mm flexible connection and positioned so that the connection point and the stop cock will not be obstructed when the undersink unit is installed.
- Power supply 220-240 Volt AC, for connection to the unit via a 13 amp fused spur.
- This switch must provide all-pole disconnection and a contact separation of at least 3mm installed in accordance with wiring rules.

- A potable mains cold water supply with a minimum working pressure of 2 bar dynamic and a maximum working pressure of 7 bar connected via an isolation valve. If pressure is likely to exceed 7 bar, install a 3.5 bar Pressure Limiting Valve.
- The fitting of an air flow vent cut into the top half of the cupboard door concealing the HydroTap requiring a cut size of approximately 100mm circular, to provide adequate warm air displacement. In installations where high volume draw-off will occur, the fitting of the accessory exhaust fan is essential.

Important: Do not proceed with the installation if these requirements are not met.

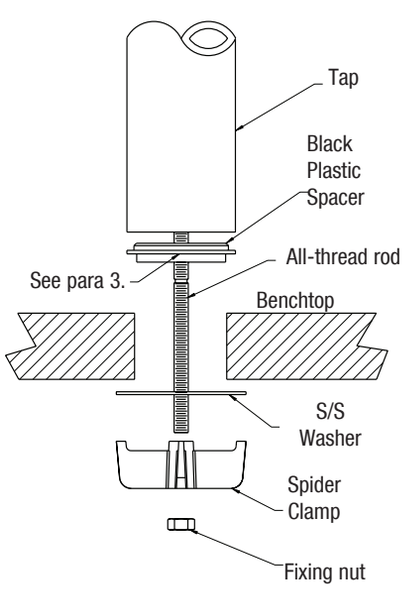
CAUTION: In order to avoid a hazard due to the inadvertent resetting of the thermal cut out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility

Special Tools Required

In addition to normal tools, the following will be required:

- 35mm diameter sheet metal hole punch for sink tops. (not supplied)
- 35mm diameter hole saw for timber bench tops. (not supplied)
- Nut runner tube spanner (supplied) for fixing tap assembly.
- **When installing a Font unit:**
- 108mm diameter sheet metal or hole saw to suit surface being cut.

Installation Procedure



Note:
A stainless steel washer is supplied to go in between the Spider Clamp and the underside of the sink top. See location as shown.

Step A - Installing the (Boiling / Chilled) HydroTap outlet

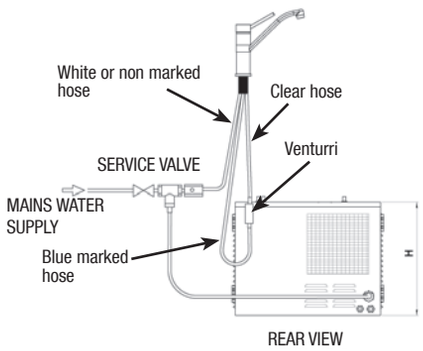
(see options P19)

1. Make sure that the tap location will allow the nozzle to drain into the sink.
2. Cut a 35mm hole in the bench / sink top.
3. Ensure the black plastic spacer remains in place as this is the moisture seal against the bench / sink top. **A light smearing of silicon sealant on the underside of the spacer will ensure a watertight fit.**
4. Pass all three hoses through the 35mm hole and carefully locate the Head Assembly and black spacer on the bench / sink area.
5. From the underside of the bench / sink area install the S/S washer and "Spider Clamp" by feeding each of the three tubes and electrical cable evenly in between the legs of the "Spider Clamp". Slide it up to meet the "All Thread", and pass the "All Thread" through the centre of the "Spider Clamp".
6. Hold the "All Thread" steady and fit the 6mm nut to the "All Thread" using the tube spanner supplied in the kit. Check the Tap Head position before securing it tightly against the bench / sink top.

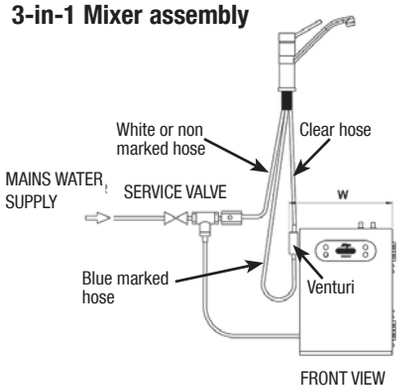
NOTE 1: The tap assembly must not be positioned more than 900mm above the HydroTap unit.
Failure to do this may result in poor water delivery.

NOTE 2: Under no circumstances should the Tap be twisted after the installation is complete.

4-in-1 Mixer assembly



3-in-1 Mixer assembly



NOTE :

New hose sets supplied with the unit should be used. Do not use old hose sets.

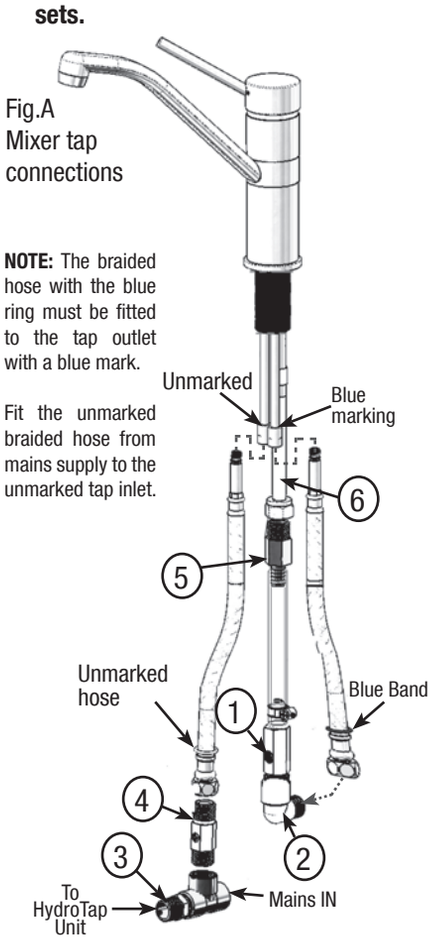


Fig.A
Mixer tap connections

NOTE: The braided hose with the blue ring must be fitted to the tap outlet with a blue mark.

Fit the unmarked braided hose from mains supply to the unmarked tap inlet.

Step B - Installing the (Hot / Cold) Mixer tap outlet

(see P20 options)

The approved vented tapware, as supplied must be used. It is advisable to fit the tap to the sink before installing the undersink unit. Do not dismantle the assembled tap body during installation. Mixer taps are factory tested and sealed to provide optimum performance.

The sqaure tap option will require the spout to be fitted to the the tap body. Carefully insert the spout into the tap body and push fully home. Tighten the grub screw using the supplied Hex Key. Do not overtighten the grub screw, the spout should be able to swivel without interference from the grub screw.

Before connection, it is recommended to flush water supply pipes thoroughly to remove any silt or fines.

1. Make sure the tap location will allow the nozzle to drain into the sink.
2. Cut a 35mm hole in the bench / sink top.
3. Screw the 2 Braided hoses to the underside of the mixer tap, ensure that each are firmly attached and in the correct colour or marking sequence. See the diagram below for correct orientation.
4. Fasten the mixer tap body to the sink using the bolt & plate system provided.
5. After the tap has been secured in place, screw the ½" tube (Fig. A-6) into the remaining position on the underside of the mixer tap.
6. Connect the unmarked braided hose to the incoming cold water supply using the tee piece (Fig. A-3) and restrictaflow (Fig. A-4).
7. Connect the clear hose to the top of the venturi (Fig. A-1) and join the other end to the check valve (Fig. A-5) and connection pipe (Fig. A-6).
8. Connect the braided hose with a BLUE band to the elbow (Fig. A-2) on the lower end of the venturi (Fig. A-1).

Step C - Installing the undersink unit

SPECIAL NOTE: The HydroTap undersink units are heavy, take note of the weights listed in the table on page 7. If you think you cannot lift the unit safely, get help and avoid possible injury.

Before positioning the heater connect the braided water inlet hose (supplied) from the cold water tee piece (see item 3 in Fig.A) to the cold water inlet at the rear of the unit.

Position the Zip HydroTap undersink unit as close as possible to directly beneath the Zip HydroTap tap head. The connection tubes supplied with the tap head assembly CANNOT be lengthened.

Leave at least a 50mm air-gap without obstruction on each side of the unit and 65mm at the rear

The following instruction is CRITICAL:

Adjust both cupboard door hinges and attach the supplied rubber door buffers to the doors to create a 4mm air-gap between the doors and the cupboard. This is the minimum ventilation requirement for low usage installations.

Proper air circulation must be provided for all Boiling and Chilled models. The system will operate correctly only if the recommended air gaps are achieved during installation. A ventilation hole measuring 100mm must be cut into the top half of the cupboard door to accommodate the air vent provided.
Make sure that the undersink unit ventilation grilles are not obstructed in any way.

Cupboard ventilation for Boiling only models is recommended.

Step D- Connecting the (Boiling / Chilled) HydroTap outlet

Note: Included in the installation pack are adhesive backed silicon buffers. If air vents are not installed in the cupboards housing the HydroTap, the buffers must be placed on the inside edge of the cupboard door to create a slight gap ensuring a minimum airflow. Failure to do this may cause the HydroTap to overheat and operate inefficiently.

4-in-1 HydroTap connections

Model BCH (4-in-1)

Measure and trim the blue tube and connect it to the chilled water outlet located on the top front, right hand side of the undersink unit. Use spring clamps provided to secure the hose.

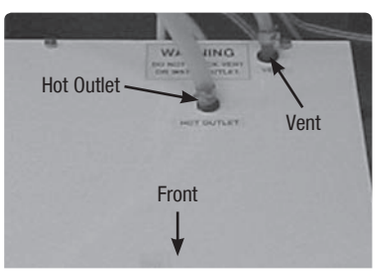
Measure and trim the red marked tube and connect it to the hot water outlet located on the top centre, right hand side of the undersink unit. Use spring clamps provided to secure the hose.

Measure and trim the unmarked tube and connect it to the vent outlet located on the top centre, left hand side the top of the undersink unit. Use spring clamps provided to secure the hose.

NOTE: All tubes must have a continuous fall back to the undersink unit.

Connect the tap USB connector to the USB port on the undersink unit. Orient the USB plug carefully and connect, do not force the plug. Once connected, fix the cable to the wall, ensure it is away from any possible water splashes and is off the floor.

NOTE: When trimming any silicon tubes trim to minimum length, do not loop any excess or allow kinking of the tubes. When connecting, slide the tube over the pipe at least 25mm. There are black plastic clamps provided on the boiling and chilled hoses to choke the flow if required. Only choke the flow if it is excessively strong.



3-in-1 Hydrotap connections

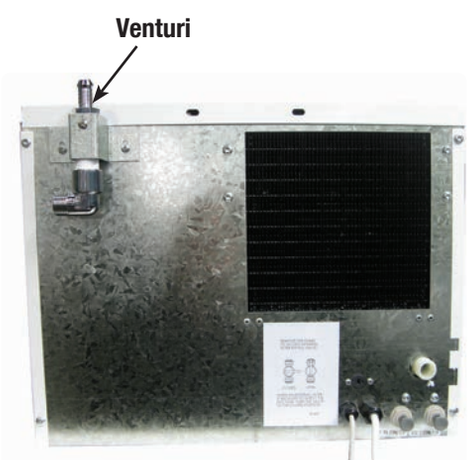
Model BH (3-in-1)

Measure and trim the red marked tube and connect it to the hot water outlet, on the top of the undersink unit. Use spring clamps provided to secure the hose.

Measure and trim the unmarked tube and connect it to the vent outlet on the top of the undersink unit. Use spring clamps provided to secure the hose.

NOTE: Both tubes must have a continuous fall back to the undersink unit.

Connect the tap USB connector to the USB port on the undersink unit. Orient the USB plug carefully and connect, do not force the plug. Once connected, fix the cable to the wall, ensure it is away from any possible water splashes and is off the floor. Fasten the tap body to the sink using the bolt & plate system provided.



Rear panel with external filter fittings

Step E - Connecting an external filter.

(Not supplied as standard equipment).

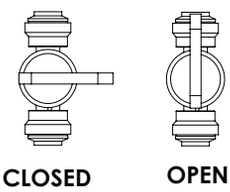
To combat the build up of lime scale, a high performance external filter kit may be ordered from your Zip service provider.

NOTE:- When fitted, the external filter will supply filtered water only for the Hot tank. The internal filter will continue to supply filtered water for the cold tank.

- The external filter may require the inlet water pressure to be regulated to lower than 6 bar. In this case a 3.5 bar Pressure Reduction Valve will be required.

Fig.1

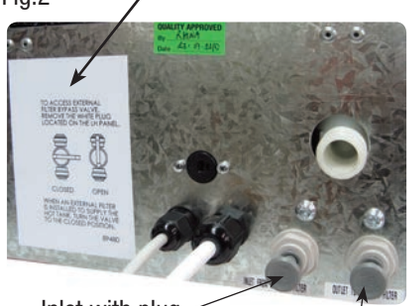
TO ACCESS EXTERNAL FILTER BYPASS VALVE, REMOVE THE WHITE PLUG LOCATED ON THE LEFT HAND PANEL.



CLOSED **OPEN**

WHEN AN EXTERNAL FILTER IS INSTALLED TO SUPPLY THE HOT TANK, TURN THE VALVE TO THE CLOSED POSITION.

Fig.2



Inlet with plug

Outlet with plug

Fig.3

Inlet from external filter with plug removed

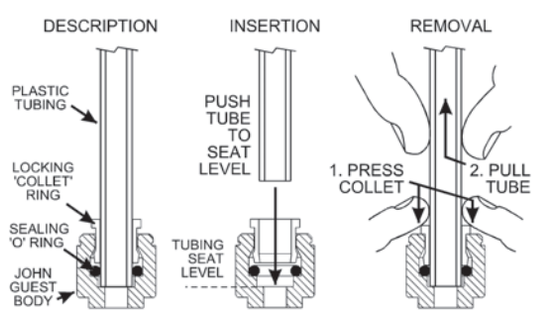
Outlet to external filter with plug removed

- The rear of the unit is fitted with, ¼" John Guest, inlet and outlet fittings, specifically for the Zip high performance filter kit.
- These instructions must be read in conjunction with the filter fitting instructions supplied with the high performance filter kit.
- The filter assembly must be located close to the appliance with sufficient space for service access. Consult the instructions supplied with the filter kit.

To fit the external filter kit:

- Access the filter bypass valve, by removing the white plastic plug, located on the Left hand side of the undersink unit (see Fig.5)
- Using a suitable set of pliers, close the filter bypass valve as instructed in Figure 1.
- Remove the Inlet and Outlet plugs from the John Guest fittings as shown in Figures 2, 3 and 4.
- After suitably mounting the filter assembly to an adjacent surface, measure and trim the filter inlet and filter outlet tubes.
- Fit the tubes to their respective inlets and outlets, checking to ensure the flow of water corresponds to the direction indicated by the arrow on the filter head and by the instructions listed on the rear panel of the under sink unit.
- Check the lower left hand John Guest fitting is the 'Inlet from the external filter', and the right hand John Guest fitting is the 'Outlet to the external filter'.
- Refit the white plastic plug and relocate the undersink unit, ensuring all air gaps and clearances are maintained. (see P5 Airflow details).
- Activate the filter programme within the service mode.
- After Testing and Commisioning (Step G).
- Set the external filter life - Refer to filter instructions..
- Set external filter use.
- Check all connections for leaks.

Fig.4



John Guest fittings: Insertion and removal

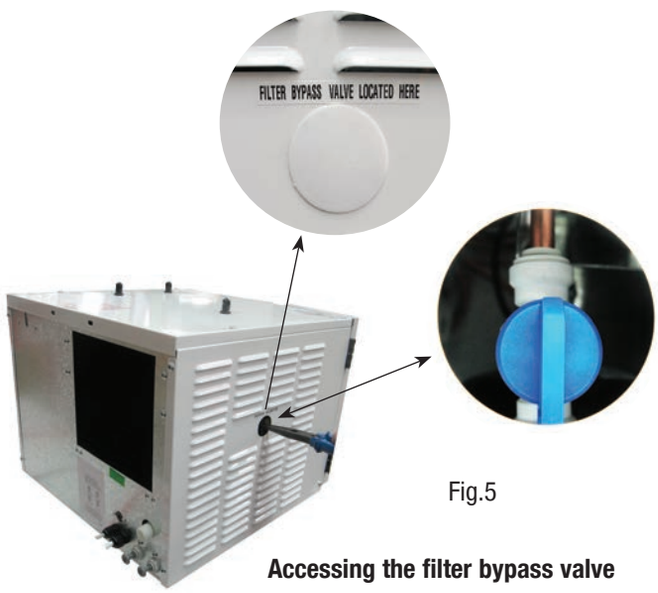


Fig.5

Accessing the filter bypass valve

Step F - Connecting the water supply

To prevent sediment from entering the Zip HydroTap at connection, flush water through the supply line thoroughly before connection to the Zip HydroTap. Open the access door and check that the filter is in place and secure. Connect the water supply to the undersink unit using the attached flexible hose. Turn on water and check for leaks. If no leaks are evident turn the power on.

Step G- Testing and commissioning

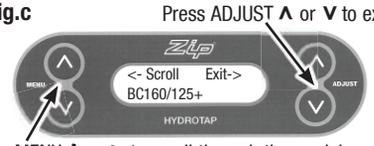
Fig.a

Fig.b

ADJUST

Fig.c

Press ADJUST ∧ or ∨ to exit



Press MENU ∧ or ∨ to scroll through the model numbers.

Fig.d

Model Selection

1. When first turned on, the screen will display general product information for approximately 2 seconds (**Fig.a)**.

2. The screen will then display 'To Select Model Press ADJUST ->'. Press the ADJUST ∧ or ∨ button once to check the model number (**Fig.b)**.

3. The screen will now display '<-Scroll Exit->' and the model description (**Fig.c)**. The factory default model description on the screen should match the product model description on the front cover of this instruction manual. If the correct model description is displayed, select 'Exit' by pressing ADJUST ∧ or ∨ to confirm selection and exit model description selection setting.
   If the model description displayed is incorrect, select the 'Scroll' option by pressing MENU ∧ or ∨ button to scroll through the model discription until the correct model description is displayed then select 'Exit' by pressing ADJUST ∧ or ∨ to confirm selection and exit model description selection setting.

4. The model selection is now complete. The 'Start Filt Flush' will be displayed (**Fig.d)**.

Filter Flush Mode

Have a bucket or similar container (not supplied) at the ready to hold a quantity of water that is ejected while the Filter Flush Mode is in operation. Open the filter access door on the front of the HydroTap and the filter cartridge will be exposed. Located to the rear RHS of the cartridge is a fixed flush line, approx 600mm long and the flush line stop cock. Place the free end of the flush line into the bucket or container (not supplied).

Turn "ON" water supply and open the flush line stop cock. The display will show Filter Flush Mode. To activate press adjust ∧ Run at least 7.5 Ltrs of water through to activate the filter membrane.
Press the adjust ∧ button again to stop the Filter Flush Mode. **Turn OFF the Filter Flush stop cock and re-locate the tube and stop cock in the filter compartment.** Turning OFF the Filter Flush Mode puts the HydroTap into calibration mode. Press adjust ∧ to start calibration. The element will now cycle ON and heat the water to 90ºC maintaining it at that temperature for a short stabilization period.

Use these buttons to scroll through the menu

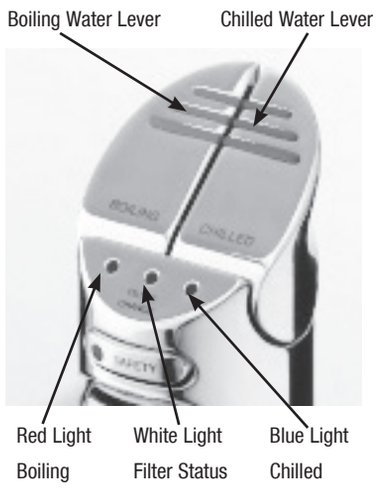
Use these buttons to activate and de-activate the program selected

Once stabilized, the element will cycle ON, bring the water to boiling point and hold it there for a short period.

The unit now carries out a self calibration function to ensure correct temperatures are maintained. During this period the Red LED on the Tap Head assembly flashes slowly until the calibration function is complete.

Once this step is complete (approx 5 minutes) the unit will default to normal operation.

When starting, both Boiling and Chilled cycles activate simultaneously after calibration has taken place, the descriptions below indicate what happens during each cycle.



Boiling

The unit is now running in normal operating mode. The Red LED will flash until usable temperature is reached.

Before using the HydroTap wait 5 minutes after this point to allow adequate fill time. The unit is now ready for use. Test water delivery from the tap and check for appropriate temperatures. Use cable clips to tidy and secure wiring.

Chilled

When water and power is turned On, the Blue LED flashes slowly on the Tap Head assembly. The compressor activates and water begins to fill the chiller tank at the prescribed rate. When the water is chilled to 15ºC the Blue LED on the Tap Head assembly stops flashing and stays illuminated. The compressor continues to chill down to 5ºC when it will cycle Off.

Ensure that the clock matches your local time. If not refer to page 17. If Energy Saver Settings are required, the instructions for installing these are described on page 17 “Setting the Energy Saver Timer”.

Step H - Temperature set point adjustment

(Not normally required)

Temperature and Water level screen: (Service Default Screen)

To access this default screen, on the right hand side of the screen, press the ‘**A**’ adjust buttons together until the screen changes to Service Mode, it will show the following:

Hot Temp Lvl

Cold Temp Lvl

NOTE: The temperatures shown are actual, not the set temperatures. To revert back to the Normal Operation screen, press the adjust buttons together again until screen changes.

⟶ Press the Menu plus button, once, to enter the Hot Temperature Adjustment Screen:

Here you can adjust the Hot temperature set point by pressing the **A** adjust ∧ or ∨ buttons. The Hot temperature set point can be raised or lowered in 0.5ºC increments between 68º - 100ºC. **Note:** the Maximum setting of 100ºC is not recommended for normal use. Do not raise temperature above 98.5ºC without consulting Zip first to discuss the service issue.

⟶ Press the Menu minus button, once, to return to the service default screen:

NOTE: On the BCH models the cold temperature set point can be adjusted as follows:

⟶ Press the Menu minus button, once, to enter the Cold Temperature Adjustment Screen:

Here you can adjust the Cold temperature set point by pressing the adjust ∧ or ∨ . The cold temperature set point can be changed in 2ºC increments as follows: 5-9º ; 7-11º ; 9-13º or 11-15ºC.

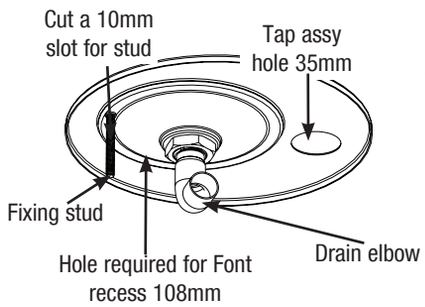
⟶ Press the Menu minus button, once, to return to the service default screen:

To change the service default screen back to Normal Operation, press the adjust buttons together until the screen changes back.

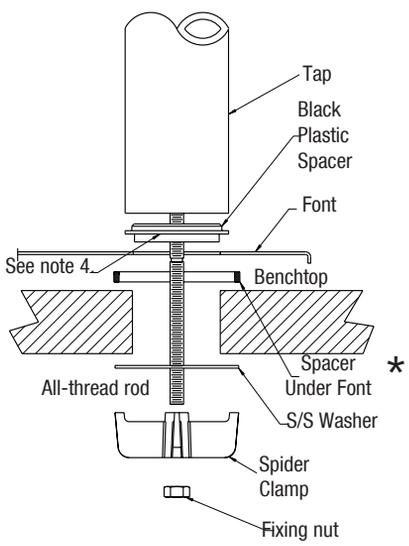
⚠ Warning:

Caution must be observed when changing any settings within the Service Menu as changes may affect the normal operation of the unit.

Font Installation Procedure



View from underside



1. Position the Font template (provided) on the bench area. Ensure the position you select is within the length of the supply tube and USB cable fixed to the Tap Head Assembly. These cannot be extended.
2. Check again for correct positioning. The supply hoses must have constant fall back to the tank assembly. Cut the holes as shown on the template.
3. Once holes are cut, locate the Font base in position, from the underside, lightly tighten the securing rod with the nut and washer provided.
4. Apply a light smear of silicon sealant to the underside of the black base ring, this will provide a water tight seal against the Font base when clamped. * Ensure the plastic spacer is correctly located under the Font.
5. Now take the Tap Head Assembly. Feed the hoses and USB cable through the Font base, then through the plastic spacer that sits under the font base but on the bench top. This stops warping of the base plate. Ensure the Tap spout is directly centred over the Font drain. Fit the “Spider Clamp”, nut and washer onto the “All Thread”. Have all the supply tubes and USB cable located evenly between the “Spider Clamp” legs. When satisfied with the positioning, tighten the fixing nut with the Tube Spanner provided in the kit.
6. Tighten the securing pin so the Font base is flush with the bench top.

   NOTE: The fixing nut above the drain elbow can be loosened to correctly position the direction of the elbow. Ensure when the re-positioning is complete the nut is re-tightened to ensure a water tight seal.
7. Connect a drain hose (22mm ID) from the Font base outlet elbow to the closest drain trap spigot available. If a spigot is not available use the snap on spigot and worm drive clamps supplied in the kit. (Instructions and diagrams are supplied in the kit).
8. Ensure the positioning of the snap-on spigot is on the “sink” side of the trap and not the “waste” side. Once positioned, a hole (13mm ID) will need to be drilled to provide waste access to the drain line. The snap-on unit will require suitable sealant to keep it water tight against the waste pipe. Finish by fitting the worm drive clamps tightly on either side of the spigot and fitting worm drive clamps to either end of the drain hose. The drain hose from the Font must have constant fall
9. Connect the Tap head Assembly supply hoses and vent as per the instructions contained in the installation procedure section of this document.

   NOTE: A stainless steel washer is supplied to go in between the Spider Clamp and the underside of the benchtop. See location as shown.

Operating the Mixer Tap

The Mixer tap is operated as a conventional ‘Flick Mixer’

Lifting the handle up will increase the flow rate and lowering the handle will reduce the flow rate. Push the handle all the way down to turn the tap off. (For Standard and Tall tap) For Square tap pulling the handle backwards away from the tap body increases the flow and pushing forwards towards the tap body decreases the flow.

When the handle is moved to the left, the temperature is increased and when moved to the right the temperature is decreased. The final temperature will be dependant on the temperature of the incoming cold water.

The spout may be swivelled, left or right, for convenience.

Operating the HydroTap

Boiling Filter Change Chilled

Note: On the Boiling only models the Chilled LED is blank.

Blue Chilled Water Light

On all the time:
This indicates that the temperature of the chilled water is within the usable temperature range.

Flashing slowly :

This indicates that the chilled water is not at the right temperature. Wait up to 20 minutes. When the chilled water is at the right temperature, the light will stop flashing. Note: The Zip HydroTap is designed to dispense chilled water in the temperature range 5°C to 15°C.

During heavy usage, the temperature can rise out of this range.

Red Boiling Water Light

On all the time: This indicates that the boiling water is ready.

Flashing slowly : This indicates that the boiling water is below usable temperature.

Filter Change Light Off: This indicates the filter is operating within its normal specified life span.

Filter Change Light Flashing slowly : The light will flash slowly when the filter is due for replacement and the LCD will show “Filter Change”. Refer to “Replacing the filter” section of this document.

Boiling Water Lever

Depressing the “Red” lever allows dispensing of Boiling water.
Pulling up the Red lever allows the tap to operate in a “no-touch” mode. Water will flow from between 5 and 15 seconds (This is user adjustable). To reset, return the handle to the “Off” position and repeat the step. The lever has to be manually returned to the “Off” position.

Press or pull lever

Chilled Water Lever

Depressing the “Blue” lever allows dispensing of Chilled water. Pulling up the Blue lever allows the tap to operate in a “no-touch” mode. Water will flow from between 5 and 15 seconds (This is user adjustable). To reset, return the handle to the “Off” position and repeat the step. The lever has to be manually returned to the “Off” position.

Child Safety Lock (4 in 1)

The child safety lock can be activated to prevent boiling water flowing if the hot lever is inadvertently activated.

To activate: First press the safety lock then depress the Blue Chilled water lever for a period of approximately ten seconds. The safety lock indicator light will now be illuminated.

To de-activate: First press the safety lock then depress the Blue Chilled water lever for a period of approximately ten seconds. The safety lock indicator light will now extinguish.

Child safety Lock

To operate when the lock is ON, depress both the Red lever and the safety lock simultaneously.

Child Safety Lock (3 in 1)

To activate the child safety lock , go to the LCD display, using menu ∧ or ∨ scroll to the Safety Lock display. To turn ON adjust ∧ to turn OFF adjust ∨ button. After about 10 seconds the screen will default to the selected mode. When activated the LED on the safety lock will be illuminated. If de-activated the LED will be OFF.

To operate when lock is ON, depress both the Red lever and the safety lock simultaneously.

External Filter Replacement

These instructions must be read in conjunction with the filter fitting instructions supplied with the high performance filter kit.

Depending on local water quality conditions and usage, the filter will require changing when it has reached its rated capacity. You may also need to replace the filter if you notice unpleasant odours or tastes.

To change the pre-set filter life, scroll through the menu to “External Filter Life”, press adjust ∧ to reset litre counter. Press adjust ∧ and it asks “are you sure”. Press adjust ∧ again to lock in the command.

To Change the external filter:

1. Scroll through the screen menu to “Filter Flush Off” this isolates the water supply.
2. Relieve system pressure by lifting the Hot lever and allowing the water to run until it shuts off automatically (15 secs.)
3. Remove and replace the spent external filter cartridge as described in the filter kit instructions. Mop up any spills from the filter head.
4. Scroll through the menu to “External Filter Used”, press adjust ∧ to reset the litres. Press adjust ∧ and it asks “are you sure”. Press adjust ∧ again to lock in the command. After approx 10 seconds it will default to the selected mode.

Internal Filter Replacement

HydroTap filter location

The Zip HydroTap notifies when filter replacement is due. The default setting is 6000 litres, but this can be set in increments of 1000 litres from 1000 litres to 10000 litres. When a filter change is due, the Change Filter light will flash white once a minute and remain so until reset. A filter status light is located between the Red and Blue Lights on the tap head assembly.

Depending on local water quality conditions and usage, the filter may require changing anywhere from 1000 litres to 10000 ltres. You may also need to replace the filter if you notice unpleasant odours or tastes.

Some water may drip from the filter head (socket) during replacement. Keep a bucket and towel handy to catch drips and mop up any spills.

Boiling Unit - filter location

To change the Filter:

1. Scroll through the screen menu to “Filter Flush Off” this isolates the water supply.
2. Open the left door
3. Relieve system pressure via the filter flush stop cock, a quick open and close will do.
4. Grasp filter cartridge and twist right to left one quarter turn until it stops.
5. Ease cartridge downwards to detach it from the filter head (socket).
6. Do not tilt the cartridge as dirty water may spill from it if tilted.
7. Unpack replacement cartridge and write today’s date where shown on the label.

Internal Filter Replacement (Continued)

8. Avoid touching the filter "O" rings and filter opening as this may cause bacterial contamination of the cartridge.
9. Align cartridge tabs with the slots on the under-side of the filter head.
10. Slide cartridge upward into head and rotate left to right until it stops.
11. Locate the filter flush hose situated behind the filter cartridge and run to a container ready for flushing. Open the flush hose tap lever. On the control panel press adjust ∧, this will start the water flushing the cartridge. Allow at least 7.5 Ltrs of water to run through to activate the filter and then press adjust ∧ to stop the flow.
12. Isolate the filter flush stop cock and re-fit behind the filter cartridge.
13. Wipe up any spills and dispose of spent filter cartridge and packaging thoughtfully.
14. Scroll through the menu to "Litres Filtered", press adjust ∧ to reset litre counter. Press adjust ∧ and it asks "are you sure". Press adjust ∧ again to lock in the command.
15. Scroll through the menu to "Filter Used (Days)", press adjust ∧ to reset the timer. Press adjust ∧ and it asks "are you sure". Press adjust ∧ again to lock in the command. After approx 10 seconds it will default to the selected mode.
16. Close the door to secure the appliance.

Warning: If the Zip HydroTap is switched off for a long period of time (e.g. More than a weekend), run water through the chilled water outlet for at least 5 minutes before consumption.

Setting the Energy Saver Timer

Note:

Mode buttons change the screen options

Adjust buttons select the screen options

Normal Operation Set Time

To change time, press either Mode ∧ or Mode ∨ button until Set Time is on the display screen. Press ∧ Adjust button to increase time or ∨ Adjust button to decrease time. Time increases or decreases in increments of one minute. Hold the Adjust buttons down for rapid increases or decreases. The time will be displayed in 24Hr mode.

Set Day

Press either Mode ∧ or Mode ∨ button until Set Day is displayed.

Press ∧ Adjust or ∨ Adjust to select day.

Filter Life (factory set at 6000ltrs)

Press either Mode ∧ or Mode ∨ button until Filter Life is displayed.

Press ∧ Adjust button to increase Filter Life or ∨ Adjust button to decrease Filter Life.

Filter Life increases in 1000 Ltr increments to a maximum of 10000ltrs.

Reset Litres Filtered

This function is to reset the Filter Change display after a filter has reached the end of its life (refer to "Replace Filter Instructions" section of this document).

Setting the Energy Saver Timer (continued)

Press either Mode ∧ or Mode ∨ button until “Litres Filtered” is displayed. Press ∧ Adjust once and “Reset Counter” will be displayed, press ∧ Adjust button once and “Are You Sure” will be displayed.

Press ∧ Adjust once and “Litres Filtered” will be reset to 0.

Activating Sleep Mode

This mode allows the HydroTap to go into Energy Saving mode. In this mode the unit will go to “sleep” after a predetermined period of inactivity.
Press either Mode ∧ or Mode ∨ button until “Sleep Mode” is displayed.

Press ∧ Adjust once to select.

Option 1: Sleep to 65ºC after 2 hours of NO USE

Press ∧ Adjust once to select.

Option 2: Auto OFF after 2 hours of NO USE.

When the period of inactivity passes, the display will show “Sleep Mode”. During the “Sleep Mode” the Red LED on top of the tap lever will flash slowly.

Sleep to OFF means the Boiling and Chilled circuits will be switched OFF.

De-Activating Sleep Mode:

Momentarily operate the Hot lever on the HydroTap and then allow sufficient time for the water to reach the set temperature.

Activating On / Off Mode

Press the Mode ∧ or Mode ∨ button until “Monday On” is displayed. To set the time for the unit to turn on press ∧ Adjust button until required time is reached.

To set the time for the unit to turn Off press Mode ∧ button once and “Monday Off” will be displayed. Now press ∧ Adjust until required time is reached.

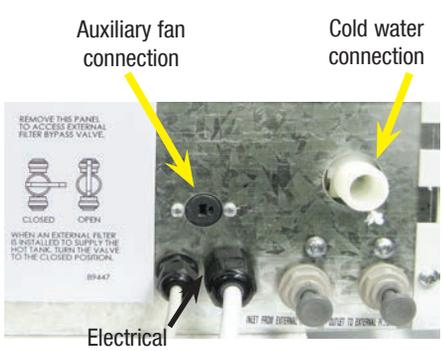
If each individual day is to have an “On / Off” time, these steps need to be repeated for each day and for each On / Off time.

Note:

The HydroTap may be temporarily activated during the On / Off Mode. By operating the levers, the unit will go into normal operation and then remain in an “ON” cycle, until the next “OFF” cycle.

Operating the Mixer tap will not De-Activate the sleep mode or the energy saver On/Off timer mode.

Auxiliary Fan Attachment



The HydroTap is equipped with an auxiliary fan connection point on the rear panel close to the cold water inlet / flex and plug area. The fan kit is available as a spare part. The fan operates in parallel with the Condenser fan helping to remove heat from the cupboard space. This fan should be purchased and connected to the HydroTap if the airfow characteristics of the cupboard space are inadequate for the effective removal of hot air, thereby adversely affecting the operation of the HydroTap.

The fan can be installed so that it extracts air from, or forces air into the cupboard space, whichever is the most effective for your installation.

Application of the fan is of paramount importance in situations where the cupboard space reaches temperatures greater than 35ºC.

The exhaust fan kit must be fitted, when supplied with the appliance.

Note: 200/175 model is supplied with the auxiliary fan kit.

Boiling Water Isolation

The HydroTap is equipped with an additional safety mode that allows protection against accidental operation by Infirm or disabled persons.

1. On the LCD scroll through the menu to Hot Isolation.
2. Press adjust ∧ to activate.
3. Now go to the Tap Head assembly and press the Safety Lock (3) three times rapidly, the LED's will scroll from left to right (3) three times. This operation confirms the activation.
4. This isolates the boiling tap only. The LCD shows isolation mode is active.
5. To temporarily de-actvate and dispense boiling water, press the Safety Lock (3) three times rapidly, the LED's will scroll from right to left (3) three times. This operation confirms de-activation and will temporarily de-activated. After 30 seconds of no use the unit will revert to normal active mode.
6. If permanent de-activation is required, de-activate by scrolling through the menu and selecting de-activate when Hot isolation Mode is displayed on the screen.
7. The LCD will show Normal Operation.

Set The Boiling & Chilled Water Dispensing Times

The ability to change the maximum dispensing time for both the Boiling and Chilled water has been introduced. The default settings for the maximum dispensing times is 15 secs. The ability to change both the Boiling and Chilled dispensing times between 5 and 15 secs, in increments of 1 sec, is accessible through the Menu screen on the LCD.

Scroll through the Menu until the Dispense Hot screen is displayed, then use the adjust buttons to set the required dispensing time for the Boiling water.

Follow the same procedure to access the Dispense Cold (for Chilled water) screens.

Cleaning

Do not use strong, corrosive, spray or abrasive cleaners. Clean with a soft cloth or brush and mild soap and water.

Do not spray water over the tap as it may damage the low-voltage electronics.

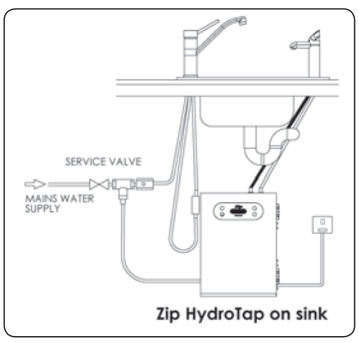
Undersink units must never be located near, or cleaned with water jets.

End of Life Disposal

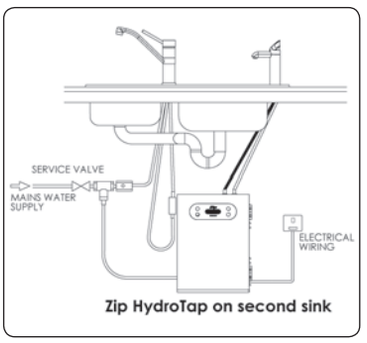
In order to help preserve our environment we ask that you dispose of this product correctly.

Please contact Zip Customer Service on 0845 6 005 005 for advice.

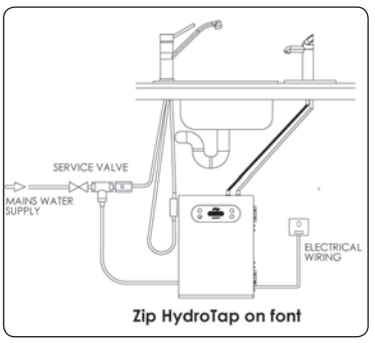
3-in-1 Installation Options



Zip HydroTap on sink



Zip HydroTap on second sink



Zip HydroTap on font

NOTE:

The Venturi connection for the 3-in-1 Mixer tap is located on the Left Hand side of the undersink unit.

The Mixer tap may be fitted (as shown above) to supply Cold or Hot water to one or two sinks.

The HydroTap may be fitted to supply filtered Boiling water to any one sink or may be fitted with a Font kit, when a sink is not available. The Font must be connected to a suitable drain.

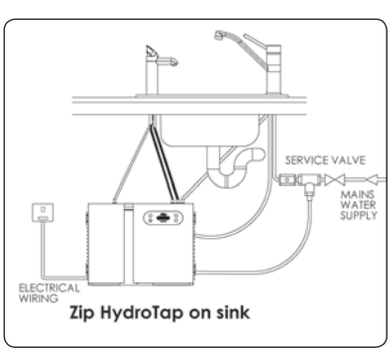
4-in-1 Installation Options

NOTE:

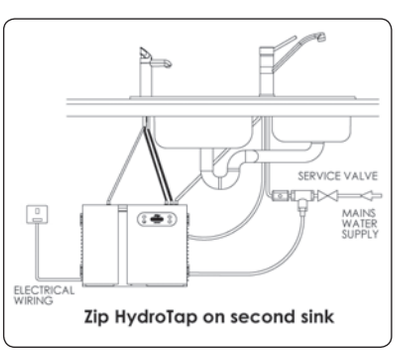
The Venturi connection for the 4-in-1 Mixer tap is located at the back of the undersink unit. Connections to the Venturi should be made prior to fitting the undersink unit in place

The Mixer tap may be fitted (as shown below) to supply Cold or Hot water to one or two sinks.

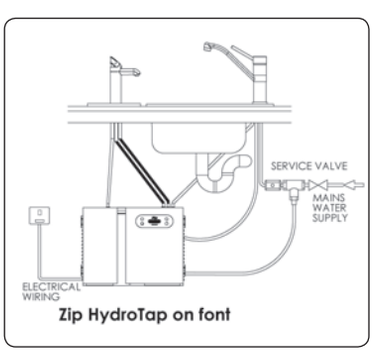
The HydroTap may be fitted to supply filtered Boiling or Chilled water to any one sink or may be fitted with a Font kit, when a sink is not available. The Font must be connected to a suitable drain.



Zip HydroTap on sink



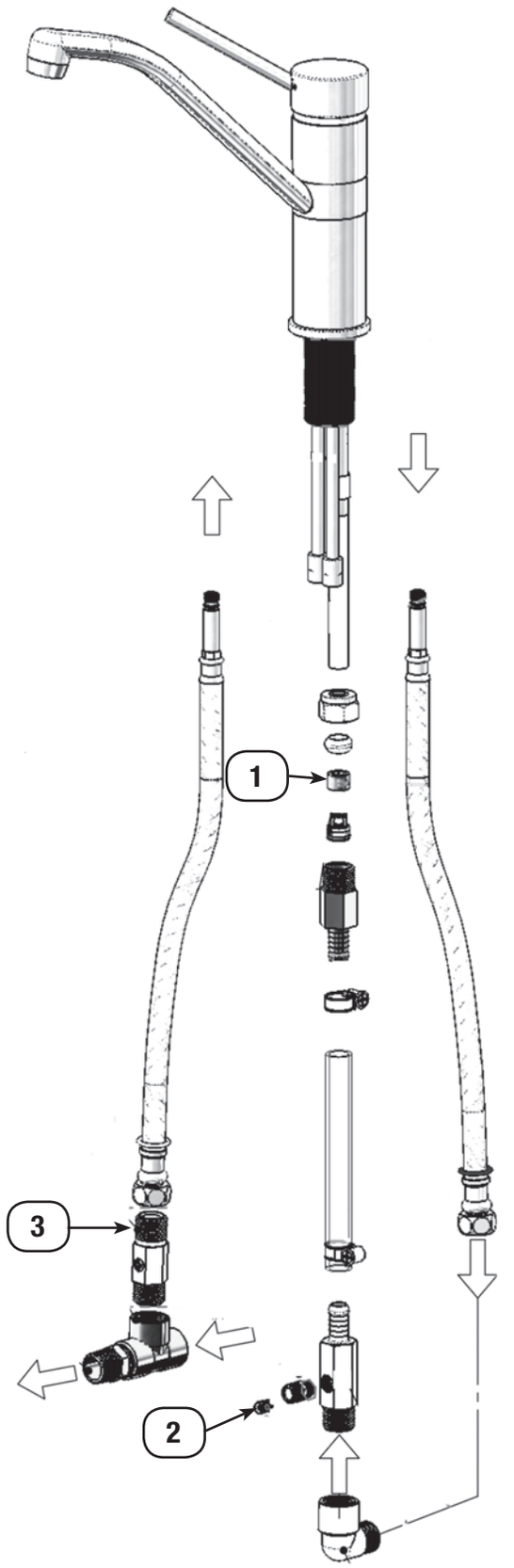
Zip HydroTap on second sink



Zip HydroTap on font

Trouble Shooting

Symptom	Possible Cause	Solution
No LED display, no tap head lights or, no water when tap levers are operated.	No power.	Check power supply.
	Plug is not located in power socket.	Ensure power plug is correctly fitted and switch is turned ON.
	Tap loom is not connected to HydroTap unit.	Check loom connection.
	Possible internal fault.	Contact your authorised Service Provider.
	Program in OFF cycle	Check LCD for information.
No water flow from HydroTap	Water supply isolated.	Check water supply is ON.
	Water supply not connected.	Check to ensure plumbing connection is made.
	Power supply not connected.	Check power plug is correctly fitted and switch is turned ON.
	Tap loom is not connected to HydroTap unit.	Check for loom connection.
	Possible internal fault.	Contact your authorised Service Provider.
	Program in OFF cycle.	Check LCD for information.
	Child safety lock is ON	Deactivate Child safety lock. (see Page 15)
No water flow from mixer tap	Faulty non return valve	Check and Replace faulty non return valves (1 & 2 Page 22)
	Faulty restrictaflow valve	Clean and reset restrictaflow valve (item 3. Page 22)
	Water supply not connected.	Check plumbing connection & turn water ON
No hot water from mixer	Hot tank empty - Excessive use	Wait for tank to refill and reheat
	Faulty venturi check valve	Replace faulty venturi check valve (item 2. Page 22)
Slow water recovery after use	Filter may require replacement.	Check filter usage on LCD screen, if “filter change” is displayed follow instructions on Page 16.
Water not hot	Unit is in Sleep Mode.	Momentarily operate the HydroTap Hot lever and wait for the Red LED to stop flashing. (see Page 18)
	Unit has just come out of OFF cycle.	Wait for Red LED to stop flashing.
	Possible internal fault.	Contact your authorised Service Provider.
Water not chilled	Excessive use, unit refilling or chilling down to temperature.	Wait for Blue LED to stop flashing. (see Page 15)
	Possible internal fault.	Contact your authorised Service Provider.
Alternating display messages	More than one fault identified at the same time	Record the number and type of faults Contact your authorised Service Provider.
Hot tank overflowing	Faulty venturi check valve	Check & Replace faulty non return valves (1 & 2 Page 22)
Mixer tap operation reversed	Braided hoses incorrectly fitted	Check position of Blue and White connections (Page 9)



Item	Description	Part No.
1	Chec Valve 15mm	SP88508
2	Check Valve 8mm	SP88509
3	Restrictaflow	

Notes

Warranty

Certain warranties may be implied by law into your contract with Zip. The warranty provided below is additional to these implied warranties and nothing set out below shall limit your statutory rights or rights at law.

Zip Industries (UK) Ltd warrants that, should any part fail within 12 calendar months of installation, that part will be repaired or replaced free of charge by Zip or its Distributor or Service Provider, except as set out below, provided the appliance is installed and used strictly in accordance with the instructions supplied, and that failure is not due to accident, misuse, abuse, unsuitable water conditions, or to any alteration, modification or repair by any party not expressly nominated by Zip.

No costs are payable by the customer other than any mileage or travelling-time charges incurred by a Zip Service Provider or the cost of removal, cartage and re-installation of any component of the appliance if it needs to be returned for repair to Zip or its Distributor.

This warranty does not cover damage resulting from non-operation of the appliance, the use of non authorised parts or consequential damage to any other goods, furnishings or property.

No warranty applies to the life of any filtration cartridge installed with the appliance as cartridge life may vary according to water quality and the rate of water consumption.

Zip does not exclude, restrict or modify any liability that cannot be excluded, restricted or modified or which cannot, except to a limited extent, be excluded, restricted or modified as between the owner or user and Zip under the laws applicable.

Furthermore, this warranty does not displace any statutory warranty, but, to the extent to which Zip is entitled to do so, the liability of Zip under any statutory warranty will be limited at Zip's option to the replacement of the appliance or supply of equivalent appliance, the payment of the cost of replacing the appliance or acquiring an equivalent appliance, or the payment of the cost of having the appliance repaired or the repair of the appliance.

Registering Your Purchase

Registering your Zip installation on the Zip website may help to establish date of installation should it become necessary to service the appliance under terms of the Zip warranty. To register your installation go to www.zipindustries.co.uk and look under the heading "Warranty".

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As Zip policy is one of continuous product improvement, changes to specifications may be made without prior notice. Images in this booklet have been modified and may not be true representations of the finished goods.

The standard cup referred to in this publication is 167 ml (6 fl oz).
The standard glass is 200 ml (7 fl oz).

The terms "Zip" and "HydroTap" are registered trade marks of Zip Industries (Aust) Pty Ltd.

Zip products described in this publication are manufactured under one or more of the following patents: AU675601, AU637412, AU635979, GB0422305, GB2065848, US4354049, US5103859, US5099825 and SA2006/08043. Other patents are in force and patent applications are pending.

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